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Express Mail No.: EV562516481 US  
Docket: 915-007.146

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Express Mail No.: **EV562516481US**

In re Application of: **Antti RUHA et al**

International Application No.: **PCT/IB2003/004246**

International Filing Date: **September 29, 2003**

**TITLE: ACTIVE CURRENT MODE SAMPLING CIRCUIT**

Attorney Docket No.: **915-007.146**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicants submit herewith references of which they are aware, which they believe may be material to the examination of this application and which they may have a duty to disclose in accordance with 37 CFR 1.56.

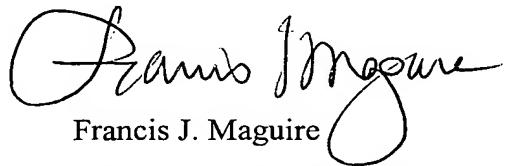
While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any document referred to herein is "prior art" for this invention unless specifically designated as such.

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In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement should not be construed to mean that a search has been made or that no other material information as defined under 37 CFR 1.56(a) exists.

Also enclosed is a Form PTO/1449 listing the references cited and a copy of a PCT International Search Report issued on the corresponding PCT International Application No. PCT/IB2003/004246.

Respectfully submitted,



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/mo  
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<b>INFORMATION DISCLOSURE CITATION FORM FOR PATENT APPLICATION (FORM PTO-1449) (Substitute)</b>		Docket No.: 915-007.146  Applicant(s): Antti RUHA et al  Filing Date: Herewith		Serial No.: <b>107536727</b>  Group:		
<b>U.S. PATENTS</b>						
Initials	Patent Number	Issue Date	Name	Class	Sub-class	Filing date
	5,963,156	10/5/99	Lewicki et al			
			<b>U.S. PATENT PUBLICATIONS</b>			
Initials	Publication No.	Pub. Date	Name	Class	Sub-class	Filing Date
<b>FOREIGN PATENT DOCUMENTS</b>						
Initials	Document Number	Date	Country	Name	Translation? Yes/No/n/a	
	WO 01/24192 A1	4/5/01	WO			
<b>OTHER DOCUMENTS (Title, Author, Date, Pages, Etc., if known)</b>						
	“ <i>A Complex Charge Sampling Scheme for Complex if Receivers</i> ” by S. Karvonen et al, Proceedings of the 2003 IEEE International Symposium on Circuits and Systems (Cat. No. 03CH37430), ISCAS 2003; International Symposium on Circuits and Systems, Bangkok, Thailand, May 25-28, 2003, pages II-169 – II-172.					
	“ <i>A Track &amp; Hold-AGC Suitable for Downconversion by Subsampling</i> ” by T. Vasseaux, et al, ICECS’99, Proceedings of ICECS ’99; 6 <sup>th</sup> IEEE International Conference on Electronics, Circuits and Systems (Cat. No. 99EX357), ICECS’99; Proceedings of ICECS’99, 6 <sup>th</sup> IEEE International Conference on Electronics, Circuits and Systems, Pafos, Cyprus, pages 1527-1530.					
	“ <i>A Charge Sampling Mixer with Embedded Filter Function for Wireless Applications</i> ” by J. Yuan, 2 <sup>nd</sup> International Conference on Microwave and Millimeter Wave Technology Proceedings, 2000					
	“ <i>High-Speed Low-Power Integrating CMOS Sample-and-Hold Amplifier Architecture</i> , L. Carley et al, Custom Integrated Circuits Conference, 1995					
Examiner's Signature:				Date Considered:		
Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered. Include a copy of this citation form with your next correspondence to the Applicant(s).						
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		Filing Date: Herewith		Group:		
<b>U.S. PATENTS</b>						
Initials	Patent Number	Issue Date	Name	Class	Sub-class	Filing date
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<b>FOREIGN PATENT DOCUMENTS</b>						
Initials	Document Number	Date	Country	Name		Translation? Yes/No/n/a
<b>OTHER DOCUMENTS (Title, Author, Date, Pages, Etc., if known)</b>						
	"Charge Sampling Mixer with $\Delta\Sigma$ Quantized Impulse Response" by S. Karvonen et al, IEEE International Symposium on Circuits and Systems 2002, volume 1.					
	"Analysis and Realization of a Downconverting Quadrature Sampler", by S. Karvonen, Diploma Thesis, University of Oulu, 2001					
	"CMOS Baseband Integrated Circuit Techniques for Radio Receivers" by S. Lindfors, Doctoral thesis, Helsinki University of Technology, July 2000					
	"A Low Noise Quadrature Subsampling Mixer" by S. Karvonen, et al, IEEE International Symposium on Circuits and Systems 2001, Volume 4					
Examiner's Signature:			Date Considered:			
Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered. Include a copy of this citation form with your next correspondence to the Applicant(s).						